

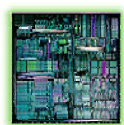
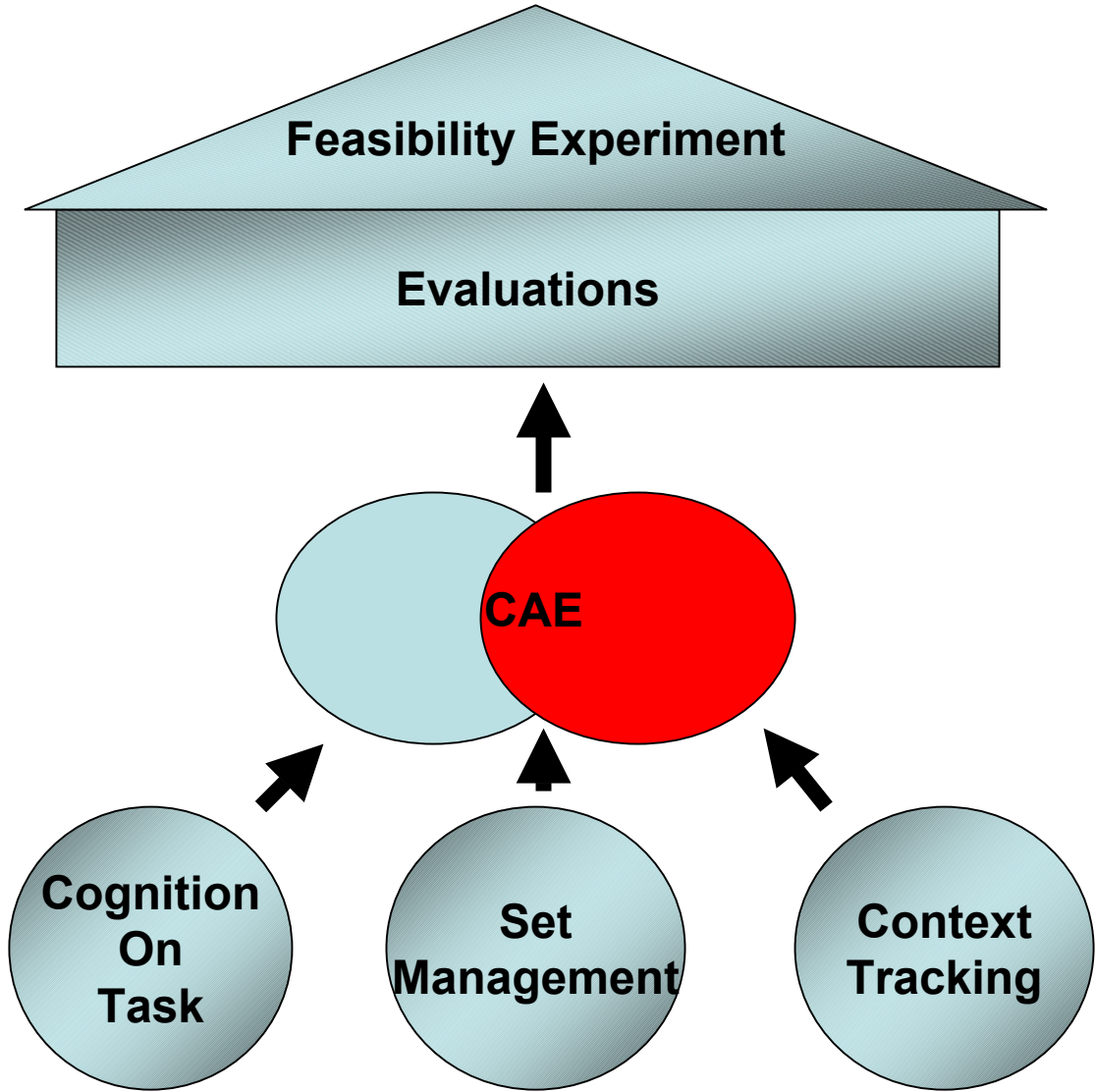


Cognitive Amplification Environment (CAE)





Dylan's View





Questions

- What is working definition of CAE?
- What should be investigated first?
- What is potentially high pay-off, but hard?
- How to integrate SOA (state of the art)?





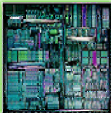
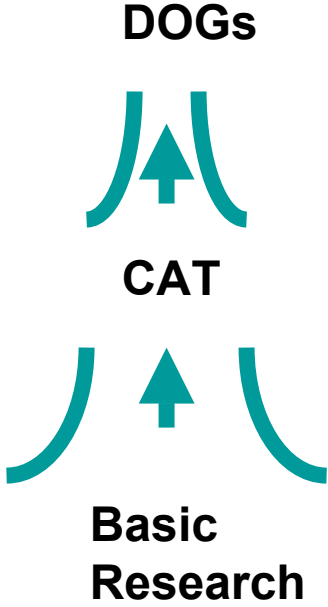
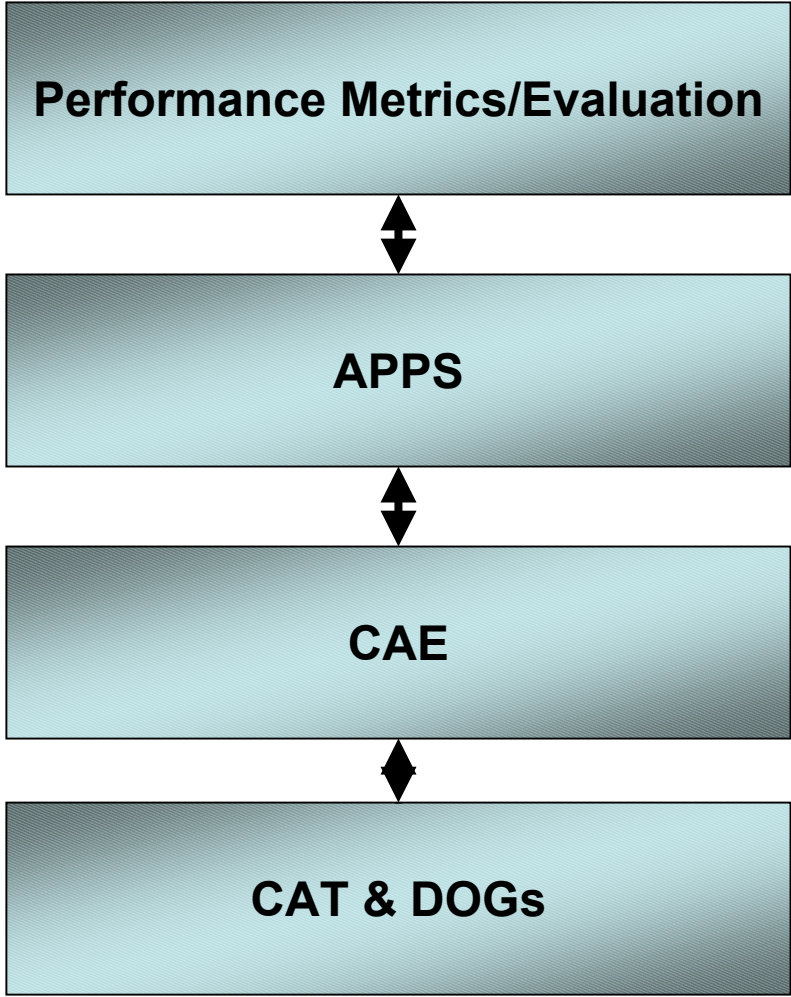
CAE definition

- CAE is the stimulation (rest of the world) external to subject and domain oriented gadgets (DOGs).
 - “Subject” is human using DOG
- CAE also defines the DOG
 - How Cognitive Amplification Technologies (CATs) will be used





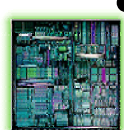
Great Graphics





SRD

- Program Description
- Program Concept of Operations (CONOPS)
- System Description
 - System Components
 - CATs & DOGs
 - Cognition on Task, Set Management, Context Tracking, Other...
 - Joint Synthetic Battlespace (JSB)
 - Integrated Data Environment (IDE)
 - Operational/Assessment Requirements
 - Experiment Design/Execution
- Appendices





Work ideas...

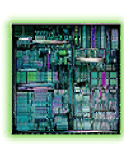
- KA/E to define model that “subject” is going to “use”. Keep generic to support multiple seedlings.
 - Provide “education/guidance” to other 3 groups to move toward a general “architecture”.
 - CAE (through KA/E) defines the model for the general decision making process.
 - Literature search
 - Project possible changes...





Work ideas

- Define the DOG
- Provide structure/framework to seedlings toward FE.
- Eliminate individual development of support infrastructure for “seedling” efforts (environment, entities, etc...)
- Experiment Support





CAT v0.9

- MMWS
- Knowledge wall/desk
- InfoCockpit
- Sonification
- Augmented Reality
- Battleboard
- Visage
- ...
- Video
- Audio
- Touch/Haptic
- Data Manipulation
- Agents
- Sensors



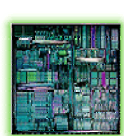


Friday Slides





CONOPS





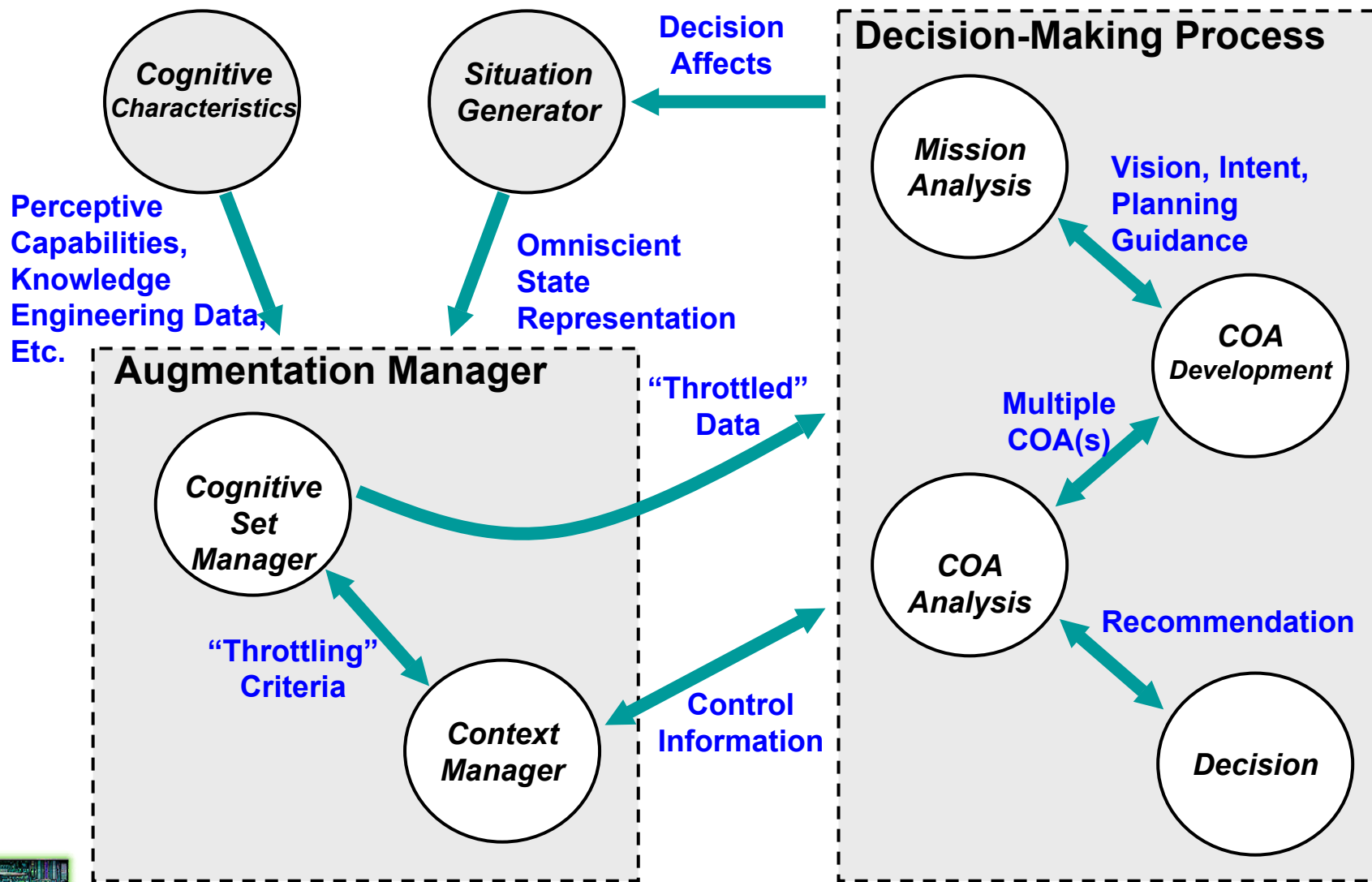
CONOPS

- Seedling efforts and basic research conducted independent of military application but dependent on AugCog objectives
- CAE to provide familiarization, education, guidance to develop transition plan to achieve military relevancy
- With military relevancy basic research becomes a CAT
- CAT(s) applied to a domain “system” becomes a DOG



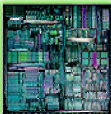
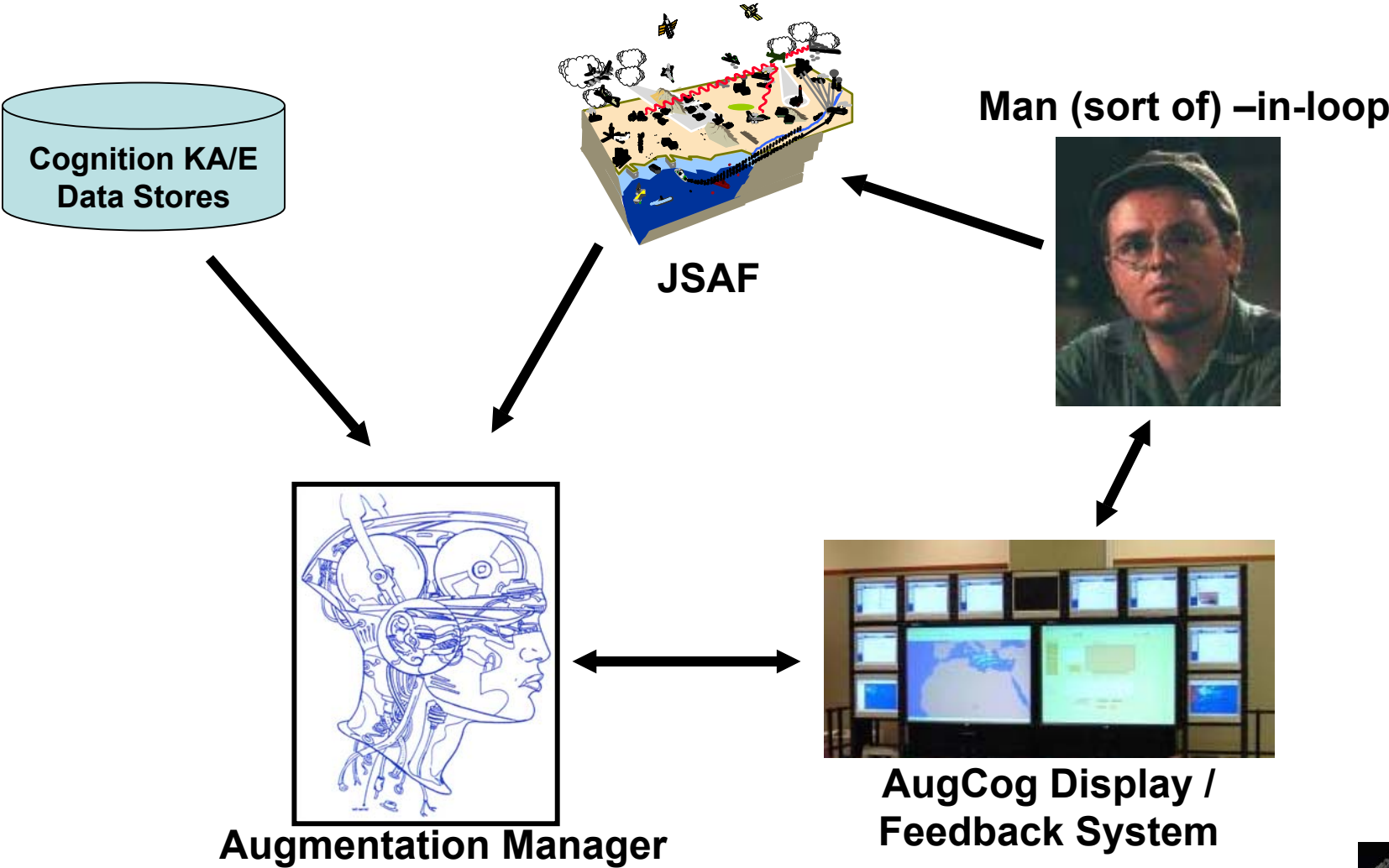


AugCog Quick Start - Notional Architecture





AugCog Quick Start - Component Architecture





Near Term POA(&M)

- KA/E Activities
 - Develop/Review Decision Making Process
 - ID “Forward Thinking” Decision Makers
- System Requirements Document (SRD)
 - ID System Components (architecture)
 - Draft SRD Development (BMH)
 - Review (CAE Team)

